



SEQUENCE LISTING

01-10-02

<110> Schering-Plough Corporation

<120> MAMMALIAN MEMBRANE PROTEIN GENES; RELATED REAGENTS

<130> SF0695B

<140> US 09/862,802

<141> 2001-05-22

<150> US 09/111,470

<151> 1998-07-08

<160> 11

<170> PatentIn version 3.1

<210> 1

<211> 1104

<212> DNA

<213> Unknown

<220>

<223> mammalian nucleic acid

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<221> CDS

<222> 242...952

<223> protein coding sequence

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 atctgcttat tttgtggggc tctcagatcc agaaggctag cgacattggc aatgggttga 780
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<211> 237

<212> PRT

<213> Unknown

<220>

<223> mammalian protein

<400> 2

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Lys Ser Ser Gly Ile Asn Thr Ala Ser Ser Ala Ala Ser Lys Glu Arg
20 25 30

Thr Ala Pro Leu Lys Ser Asn Thr Gly Phe Pro Lys Leu Leu Cys Ala
35 40 45

Ser Leu Leu Ile Phe Phe Leu Leu Leu Ala Ile Ser Phe Phe Ile Ala
50 55 60

Phe Val Ile Phe Phe Gln Lys Tyr Ser Gln Leu Leu Glu Lys Lys Thr
65 70 75 80

Thr Lys Glu Leu Val His Thr Thr Leu Glu Cys Val Lys Lys Asn Met
85 90 95

Pro Val Glu Glu Thr Ala Trp Ser Cys Cys Pro Lys Asn Trp Lys Ser
100 105 110

Phe Ser Ser Asn Cys Tyr Phe Ile Ser Thr Glu Ser Ala Ser Trp Gln
115 120 125

Asp Ser Glu Lys Asp Cys Ala Arg Met Glu Ala His Leu Leu Val Ile
130 135 140

Asn Thr Gln Glu Glu Gln Asp Phe Ile Phe Gln Asn Leu Gln Glu Glu
145 150 155 160

Ser Ala Tyr Phe Val Gly Leu Ser Asp Pro Glu Gly Gln Arg His Trp
165 170 175

Gln Trp Val Asp Gln Thr Pro Tyr Asn Glu Ser Ser Thr Phe Trp His
180 185 190

Pro Arg Glu Pro Ser Asp Pro Asn Glu Arg Cys Val Val Leu Asn Phe
195 200 205

Arg Lys Ser Pro Lys Arg Trp Gly Trp Asn Asp Val Asn Cys Leu Gly
 210 215 220

Pro Gln Arg Ser Val Cys Glu Met Met Lys Ile His Leu
 225 230 235

<210> 3

<211> 1458

<212> DNA

<213> Unknown

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<221> CDS

<222> 257...1204

<223> protein coding sequence

<220>

<221> variation

<222> 608...673

<223> short form lacks these nucleotides

<400> 3

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gtcccacctc tggtccttgc agcacaacca acgtgggaat cacaccctcc agacctccca	180
cagctccacc ccagactggg cgccggccct gcctccattt cagctgtgac aacctcagag	240
ccgtgttggc ccaagcatga caaggacgta tgaaaacttc cagtacttgg agaataaggt	300
gaaagtccag gggtttaaaa atgggccact tcctctccag tcctcctgc agcgtctccg	360
ctctgggccc tgccatctcc tgctgtccct gggcctcggc ctgctgctgc tggtcacat	420
ctgtgtgggtt ggattccaaa attccaaatt tcagagggac ctggtgaccc tgagaacaga	480
tttagcaac ttcacctcaa aactgtggc ggagatccag gcactgactt ccaggggcag	540

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cagcttggaa gaaacgatag catctctgaa agctgaggtg gagggtttca agcaggaacg      600
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gctggtgcaa gacctgaaga aactgacctg ccaggtggct actctcaaca acaatgcctc      780
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ctatgcgacc ggcttcaga actggaagcc aggccagcca gacgactggc aggggcacgg     1080
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cactgctaac attttgaatt tttttctctt taattttaaa aagatggtat agtgttctta     1380
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<210> 4

<211> 316

<212> PRT

<213> Unknown

<220>

<223> mammalian protein

<400> 4

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 20 25 30

Arg Leu Arg Ser Gly Pro Cys His Leu Leu Leu Ser Leu Gly Leu Gly
 35 40 45

Leu Leu Leu Leu Val Ile Ile Cys Val Val Gly Phe Gln Asn Ser Lys
 50 55 60

Phe Gln Arg Asp Leu Val Thr Leu Arg Thr Asp Phe Ser Asn Phe Thr
 65 70 75 80

Ser Asn Thr Val Ala Glu Ile Gln Ala Leu Thr Ser Gln Gly Ser Ser
 85 90 95

Leu Glu Glu Thr Ile Ala Ser Leu Lys Ala Glu Val Glu Gly Phe Lys
 100 105 110

Gln Glu Arg Gln Ala Gly Val Ser Glu Leu Gln Glu His Thr Thr Gln
 115 120 125

Lys Ala His Leu Gly His Cys Pro His Cys Pro Ser Val Cys Val Pro
 130 135 140

Val His Ser Glu Met Leu Leu Arg Val Gln Gln Leu Val Gln Asp Leu
 145 150 155 160

Lys Lys Leu Thr Cys Gln Val Ala Thr Leu Asn Asn Asn Ala Ser Thr
 165 170 175

Glu Gly Thr Cys Cys Pro Val Asn Trp Val Glu His Gln Asp Ser Cys
 180 185 190

Tyr Trp Phe Ser His Ser Gly Met Ser Trp Ala Glu Ala Glu Lys Tyr
 195 200 205

Cys Gln Leu Lys Asn Ala His Leu Val Val Ile Asn Ser Arg Glu Glu
 210 215 220

Gln Asn Phe Val Gln Lys Tyr Leu Gly Ser Ala Tyr Thr Trp Met Gly

225 230 235 240
 Leu Ser Asp Pro Glu Gly Ala Trp Lys Trp Val Asp Gly Thr Asp Tyr
 245 250 255
 Ala Thr Gly Phe Gln Asn Trp Lys Pro Gly Gln Pro Asp Asp Trp Gln
 260 265 270
 Gly His Gly Leu Gly Gly Gly Glu Asp Cys Ala His Phe His Pro Asp
 275 280 285
 Gly Arg Trp Asn Asp Asp Val Cys Gln Arg Pro Tyr His Trp Val Cys
 290 295 300
 Glu Ala Gly Leu Gly Gln Thr Ser Gln Glu Ser His
 305 310 315

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 <211> 291
 <212> PRT
 <213> Unknown

 <220>
 <223> mammalian protein
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 Asp His His Gln Leu Arg Lys Gly Pro Pro Pro Pro Gln Pro Leu Leu
 20 25 30
 Gln Arg Leu Cys Ser Gly Pro Arg Leu Leu Leu Leu Ser Leu Gly Leu
 35 40 45
 Ser Leu Leu Leu Leu Val Val Val Cys Val Ile Gly Ser Gln Asn Ser
 50 55 60

Gln Leu Gln Glu Glu Leu Arg Gly Leu Arg Glu Thr Phe Ser Asn Phe
65 70 75 80

Thr Ala Ser Thr Glu Ala Gln Val Lys Gly Leu Ser Thr Gln Gly Gly
85 90 95

Asn Val Gly Arg Lys Met Lys Ser Leu Glu Ser Gln Leu Glu Lys Gln
100 105 110

Gln Lys Asp Leu Ser Glu Asp His Ser Ser Leu Leu Leu His Val Lys
115 120 125

Gln Phe Val Ser Asp Leu Arg Ser Leu Ser Cys Gln Met Ala Ala Leu
130 135 140

Gln Gly Asn Gly Ser Glu Arg Thr Cys Cys Pro Val Asn Trp Val Glu
145 150 155 160

His Glu Arg Ser Cys Tyr Trp Phe Ser Arg Ser Gly Lys Ala Trp Ala
165 170 175

Asp Ala Asp Asn Tyr Cys Arg Leu Glu Asp Ala His Leu Val Val Val
180 185 190

Thr Ser Trp Glu Glu Gln Lys Phe Val Gln His His Ile Gly Pro Val
195 200 205

Asn Thr Trp Met Gly Leu His Asp Gln Asn Gly Pro Trp Lys Trp Val
210 215 220

Asp Gly Thr Asp Tyr Glu Thr Gly Phe Lys Asn Trp Arg Pro Glu Gln
225 230 235 240

Pro Asp Asp Trp Tyr Gly His Gly Leu Gly Gly Gly Glu Asp Cys Ala
245 250 255

His Phe Thr Asp Asp Gly Arg Trp Asn Asp Asp Val Cys Gln Arg Pro
260 265 270

Tyr Arg Trp Val Cys Glu Thr Glu Leu Asp Lys Ala Ser Gln Glu Pro
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Pro Leu Leu
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<210> 6

<211> 287

<212> PRT

<213> Unknown

<220>

<223> mammalian protein

<400> 6

Met Ala Lys Asp Phe Gln Asp Ile Gln Gln Leu Ser Ser Glu Glu Asn
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Asp His Pro Phe His Gln Gly Pro Pro Pro Ala Gln Pro Leu Ala Gln
20 25 30

Arg Leu Cys Ser Met Val Cys Phe Ser Leu Leu Ala Leu Ser Phe Asn
35 40 45

Ile Leu Leu Leu Val Val Ile Cys Val Thr Gly Ser Gln Ser Ala Gln
50 55 60

Leu Gln Ala Glu Leu Arg Ser Leu Lys Glu Ala Phe Ser Asn Phe Ser
65 70 75 80

Ser Ser Thr Leu Thr Glu Val Gln Ala Ile Ser Thr His Gly Gly Ser
85 90 95

Val Gly Asp Lys Ile Thr Ser Leu Gly Ala Lys Leu Glu Lys Gln Gln
100 105 110

Gln Asp Leu Lys Ala Asp His Asp Ala Leu Leu Phe His Leu Lys His
115 120 125

Phe Pro Val Asp Leu Arg Phe Val Ala Cys Gln Met Glu Leu Leu His
130 135 140

Ser Asn Gly Ser Gln Arg Thr Cys Cys Pro Val Asn Trp Val Glu His
145 150 155 160

Gln Gly Ser Cys Tyr Trp Phe Ser His Ser Gly Lys Ala Trp Ala Glu
165 170 175

Ala Glu Lys Tyr Cys Gln Leu Glu Asn Ala His Leu Val Val Ile Asn
180 185 190

Ser Trp Glu Glu Gln Lys Phe Ile Val Gln His Thr Asn Pro Phe Asn
195 200 205

Thr Trp Ile Gly Leu Thr Asp Ser Asp Gly Ser Trp Lys Trp Val Asp
210 215 220

Gly Thr Asp Tyr Arg His Asn Tyr Lys Asn Trp Ala Val Thr Gln Pro
225 230 235 240

Asp Asn Trp His Gly His Glu Leu Gly Gly Ser Glu Asp Cys Val Glu
245 250 255

Val Gln Pro Asp Gly Arg Trp Asn Asp Asp Phe Cys Leu Gln Val Tyr
260 265 270

Arg Trp Val Cys Glu Lys Arg Arg Asn Ala Thr Gly Glu Val Ala
275 280 285

<210> 7

<211> 1418

<212> DNA

<213> unknown

<220>

<223> mammalian nucleic acid

<220>

<221> CDS

<222> 279...992

<223> protein coding sequence

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<221> misc_feature

<222> 1348

<223> poly A addition motif

<400> 7

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gtttcttggt	ctcatctcg	ttatcctagt	gagacatgt	tcttctttca	tacaactgtg	180
caatatgaca	acttatcaca	gtgattgggt	ctcatatact	atagagcctt	agagaaggaa	240
caaggctctc	ttctgacgga	ggaagatfff	ttcttgatat	ggcttcagaa	atcacttatg	300
cagaagtga	gttcaagaat	gaatccaact	ccttgcacac	ctactcagaa	tctcctgcag	360
ctcccagaga	gaaacctatc	cgtgatctaa	gaaagcctgg	ttccccctca	ctgctttctta	420
catccctgat	gctacttctc	ctgctgctgg	caatcacatt	cttagttgct	tttatcattt	480
attttcaaaa	gtactctcaa	cttcttgaag	aaaaaaaaagc	tgcaaaaaat	ataatgcaca	540
atgaattgaa	ctgcacaaaa	agtgtttcac	ccatggaaga	caaagtctgg	agctgttgcc	600
caaaggattg	gaggctatff	ggttcccact	gctacttgg	tcccacagtt	tcttcatcag	660
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agtcagtttg	tcagatgaag	aaaataaact	tatgaatcac	tcattcttca	tgggcattcg	1020
attcattgtt	atccaacat	tacacagaca	cctgggaaat	tctacagggt	cacagaatff	1080

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<210> 8

<211> 238

<212> PRT

<213> unknown

<220>

<223> mammalian protein

<400> 8

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Pro Ile Arg Asp Leu Arg Lys Pro Gly Ser Pro Ser Leu Leu Leu Thr
35 40 45

Ser Leu Met Leu Leu Leu Leu Leu Ala Ile Thr Phe Leu Val Ala
50 55 60

Phe Ile Ile Tyr Phe Gln Lys Tyr Ser Gln Leu Leu Glu Glu Lys Lys
65 70 75 80

Ala Ala Lys Asn Ile Met His Asn Glu Leu Asn Cys Thr Lys Ser Val
85 90 95

Ser Pro Met Glu Asp Lys Val Trp Ser Cys Cys Pro Lys Asp Trp Arg
100 105 110

Leu Phe Gly Ser His Cys Tyr Leu Val Pro Thr Val Ser Ser Ser Ala
115 120 125

Ser Trp Asn Lys Ser Glu Glu Asn Cys Ser Arg Met Gly Ala His Leu
130 135 140

Val Val Ile Gln Ser Gln Glu Glu Gln Asp Phe Ile Thr Gly Ile Leu
145 150 155 160

Asp Thr His Ala Ala Tyr Phe Ile Gly Leu Trp Asp Thr Gly His Arg
165 170 175

Gln Trp Gln Trp Val Asp Gln Thr Pro Tyr Glu Glu Ser Ile Thr Phe
180 185 190

Trp His Asn Gly Glu Pro Ser Ser Gly Asn Glu Lys Cys Ala Thr Ile
195 200 205

Ile Tyr Arg Trp Lys Thr Gly Trp Gly Trp Asn Asp Ile Ser Cys Ser
210 215 220

Leu Lys Gln Lys Ser Val Cys Gln Met Lys Lys Ile Asn Leu
225 230 235

<210> 9

<211> 1370

<212> DNA

<213> unknown

<220>

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<220>

<221> CDS

<222> 273...1091

<223> protein coding sequence

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ccctccagac	ctcccacagc	tccaccccag	actgggcgcc	ggccctgcct	ccatttcagc	240
tgtgacaacc	tcagagccgt	gttggcccaa	gcatgacaag	gacgtatgaa	aacttccagt	300
acttggagaa	taaggtgaaa	gtccaggggt	ttaaaaatgg	gccacttcct	ctccagtecc	360
tcttgctgct	ggatcatcat	tgtgtgggtg	gattccaaaa	ttccaaattt	cagagggacc	420
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<210> 10

<211> 273

<212> PRT

<213> Unknown

<220>

<223> mammalian protein

<400> 10

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			20					25					30		

Leu	Val	Ile	Ile	Cys	Val	Val	Gly	Phe	Gln	Asn	Ser	Lys	Phe	Gln	Arg
		35					40					45			

Asp	Leu	Val	Thr	Leu	Arg	Thr	Asp	Phe	Ser	Asn	Phe	Thr	Ser	Asn	Thr
	50					55					60				

Val	Ala	Glu	Ile	Gln	Ala	Leu	Thr	Ser	Gln	Gly	Ser	Ser	Leu	Glu	Glu
65					70					75					80

Thr	Ile	Ala	Ser	Leu	Lys	Ala	Glu	Val	Glu	Gly	Phe	Lys	Gln	Glu	Arg
				85					90					95	

Gln	Ala	Val	His	Ser	Glu	Met	Leu	Leu	Arg	Val	Gln	Gln	Leu	Val	Gln
			100					105					110		

Asp	Leu	Lys	Lys	Leu	Thr	Cys	Gln	Val	Ala	Thr	Leu	Asn	Asn	Asn	Gly
		115					120					125			

Glu	Glu	Ala	Ser	Thr	Glu	Gly	Thr	Cys	Cys	Pro	Val	Asn	Trp	Val	Glu
	130					135					140				

His	Gln	Asp	Ser	Cys	Tyr	Trp	Phe	Ser	His	Ser	Gly	Met	Ser	Trp	Ala
145					150					155					160

Glu Ala Glu Lys Tyr Cys Gln Leu Lys Asn Ala His Leu Val Val Ile

165

170

175

Asn Ser Arg Glu Glu Gln Asn Phe Val Gln Lys Tyr Leu Gly Ser Ala
 180 185 190

Tyr Thr Trp Met Gly Leu Ser Asp Pro Glu Gly Ala Trp Lys Trp Val
 195 200 205

Asp Gly Thr Asp Tyr Ala Thr Gly Phe Gln Asn Trp Lys Pro Gly Gln
 210 215 220

Pro Asp Asp Trp Gln Gly His Gly Leu Gly Gly Gly Glu Asp Cys Ala
 225 230 235 240

His Phe His Pro Asp Gly Arg Trp Asn Asp Asp Val Cys Gln Arg Pro
 245 250 255

Tyr His Trp Val Cys Glu Ala Gly Leu Gly Gln Thr Ser Gln Glu Ser
 260 265 270

His

<210> 11

<211> 75

<212> PRT

<213> Unknown

<220>

<223> mammalian protein

<400> 11

Glu Lys Met Ile Ile Lys Glu Leu Asn Tyr Thr Glu Leu Glu Cys Thr
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Lys Trp Ala Ser Leu Leu Glu Asp Lys Val Trp Ser Cys Cys Pro Lys
 20 25 30

Asp Trp Lys Pro Phe Gly Ser Tyr Cys Tyr Phe Thr Ser Thr Asp Leu
35 40 45

Val Ala Ser Trp Asn Glu Ser Lys Glu Asn Cys Phe His Met Gly Ala
50 55 60

His Leu Val Val Ile His Ser Gln Glu Glu Gln
65 70 75